LAND®
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Cyclops 055L

Portable industrial pyrometer

The Cyclops series sets the industry standard for high-quality, portable, non-contact pyrometers. It is designed for a range of metal production applications with a temperature range of 1000 - 2000°C / 1832 - 3632°F.

Using through the lens sighting, the single handed, ergonomic design enables you to make temperature measurements in harsh environments. The high quality fully focusable lenses ensure the smallest spot size measurements at any distance. On-board data-logging means accurate measurements are stored directly to the instrument.

The Cyclops 055L Meltmaster mode is tailored for highly accurate measurement of liquid metal and can be used continuously throughout the pouring process, up until the last mould. The Meltmaster processing function value is displayed internally within the viewfinder, as well as being ouput via serial communications.

Cyclops logger software enables data transfer to computers or mobile devices, displaying current readings, a table view, and a trend view.

Accessories include a heat-resistant jacket, waterproof carry case, and long eye relief eyepiece adapter for use with protective goggles or face shields.

Cyclops 055L is a highly accurate portable pyrometer for temperature measurements in steel plants, primary aluminium production and liquid metal foundries.



FEATURES & BENEFITS

- **Rugged instrument casing** ensures the Cyclops can withstand harsh environments for extended periods, protecting against high temperatures, bumps and drops.
- **Standard Bluetooth® and USB connectivity** allows wireless and USB options for communicating straight to a mobile device or PC.
- **Dedicated Meltmaster mode** to ensure precise temperature measurment of liquid and molten metal.
- **Free logger software** provides data analysis to identify on-site trends, improve process efficiency or protect assets and prolong their lifecycles.
- **Internal Data Logging** of up to 9999 readings and 9 routes, eliminating the need to for seperate storage device.

See degrees differently.

SPECIFICATIONS

	Cyclops 055L
Measurement Range:	1000 to 2000 °C / 1832 to 3632 °F
Spectral response:	Nominally 0.55 µm
Measuring modes:	Continuous, Peak, Valley and advanced Meltmaster
Display:	External backlit LCD display 4-digit LCD in viewfinder
Data logging:	9999 readings and 9 routes internally; Mobile or PC logger software (via Bluetooth® or USB connector)
Data logging modes:	Classic, Burst, Latched, Route
Focusing Range:	Fixed focus, nominally at 5 m / 197 in. from pyrometer body datum
Repeatability:	<1 °C / 2 °F
Optical system:	9 ° field of view; eyepiece adjustable -3.75 to +2.5 diopters
Accuracy:	0.5 %K
Minimum target size:	Parallel 28 mm / 1.1 in target spot diameter from lens to 5 m / 197 in.
Emissivity adjustment:	0.10 to 1.20 in 0.01 step graduations
Display update time:	0.5 s
Response Time:	30 ms
Measurement resolution:	0.1 °C / 1 °F
Measurement field of view:	Fixed Focus
Operating temp range:	0 to 50 °C / 32 to 122 °F
Power Req.:	One MN1604 / 6LR61 / PP3 Battery or USB
Weight:	0.83 kg / 1.8 lb.
Sealing:	IP40
Output:	Bluetooth®/USB Connector
Free Data-logger Software:	Available at https://www.ametek-land.com/products/software/cyclopslogger; For Android devices, the Cyclops Data Logger App is available through the Google Play Store
Standard accessories:	Lens cap, protection window/filter, battery, wrist strap, USB cable, heat protection jacket
Optional accessories:	Waterproof carry case, long eye relief eyepiece

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